



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NO, 125 V DC 3-pole, Size S00 screw terminal

|                                                                                                       |                            |
|-------------------------------------------------------------------------------------------------------|----------------------------|
| <b>product brand name</b>                                                                             | SIRIUS                     |
| <b>product designation</b>                                                                            | Power contactor            |
| <b>product type designation</b>                                                                       | 3RT2                       |
| <b>General technical data</b>                                                                         |                            |
| <b>size of contactor</b>                                                                              | S00                        |
| <b>product extension</b>                                                                              |                            |
| • function module for communication                                                                   | No                         |
| • auxiliary switch                                                                                    | Yes                        |
| <b>power loss [W] for rated value of the current</b>                                                  |                            |
| • at AC in hot operating state                                                                        | 0.6 W                      |
| • at AC in hot operating state per pole                                                               | 0.2 W                      |
| • without load current share typical                                                                  | 4 W                        |
| <b>insulation voltage</b>                                                                             |                            |
| • of main circuit with degree of pollution 3 rated value                                              | 690 V                      |
| • of auxiliary circuit with degree of pollution 3 rated value                                         | 690 V                      |
| <b>surge voltage resistance</b>                                                                       |                            |
| • of main circuit rated value                                                                         | 6 kV                       |
| • of auxiliary circuit rated value                                                                    | 6 kV                       |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 | 400 V                      |
| <b>shock resistance at rectangular impulse</b>                                                        |                            |
| • at DC                                                                                               | 6,7g / 5 ms, 4,2g / 10 ms  |
| <b>shock resistance with sine pulse</b>                                                               |                            |
| • at DC                                                                                               | 10,5g / 5 ms, 6,6g / 10 ms |
| <b>mechanical service life (switching cycles)</b>                                                     |                            |
| • of contactor typical                                                                                | 30 000 000                 |
| • of the contactor with added electronically optimized auxiliary switch block typical                 | 5 000 000                  |
| • of the contactor with added auxiliary switch block typical                                          | 10 000 000                 |
| <b>reference code according to IEC 81346-2</b>                                                        | Q                          |
| <b>Substance Prohibitance (Date)</b>                                                                  | 10/01/2009                 |
| <b>Ambient conditions</b>                                                                             |                            |
| installation altitude at height above sea level maximum                                               | 2 000 m                    |
| <b>ambient temperature</b>                                                                            |                            |
| • during operation                                                                                    | -25 ... +60 °C             |
| • during storage                                                                                      | -55 ... +80 °C             |
| <b>relative humidity minimum</b>                                                                      | 10 %                       |
| <b>relative humidity at 55 °C according to IEC 60068-2-30 maximum</b>                                 | 95 %                       |
| <b>Main circuit</b>                                                                                   |                            |

|                                                                        |         |
|------------------------------------------------------------------------|---------|
| <b>number of poles for main current circuit</b>                        | 3       |
| <b>number of NO contacts for main contacts</b>                         | 3       |
| <b>operating voltage</b>                                               |         |
| • at AC-3 rated value maximum                                          | 690 V   |
| • at AC-3e rated value maximum                                         | 690 V   |
| <b>operational current</b>                                             |         |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value            | 18 A    |
| • at AC-1                                                              |         |
| — up to 690 V at ambient temperature 40 °C rated value                 | 18 A    |
| — up to 690 V at ambient temperature 60 °C rated value                 | 16 A    |
| • at AC-3                                                              |         |
| — at 400 V rated value                                                 | 7 A     |
| — at 500 V rated value                                                 | 6 A     |
| — at 690 V rated value                                                 | 4.9 A   |
| • at AC-3e                                                             |         |
| — at 400 V rated value                                                 | 7 A     |
| — at 500 V rated value                                                 | 6 A     |
| — at 690 V rated value                                                 | 4.9 A   |
| • at AC-4 at 400 V rated value                                         | 6.5 A   |
| • at AC-5a up to 690 V rated value                                     | 15.8 A  |
| • at AC-5b up to 400 V rated value                                     | 5.8 A   |
| • at AC-6a                                                             |         |
| — up to 230 V for current peak value n=20 rated value                  | 4 A     |
| — up to 400 V for current peak value n=20 rated value                  | 4 A     |
| — up to 500 V for current peak value n=20 rated value                  | 3.8 A   |
| — up to 690 V for current peak value n=20 rated value                  | 3.6 A   |
| • at AC-6a                                                             |         |
| — up to 230 V for current peak value n=30 rated value                  | 2.7 A   |
| — up to 400 V for current peak value n=30 rated value                  | 2.7 A   |
| — up to 500 V for current peak value n=30 rated value                  | 2.5 A   |
| — up to 690 V for current peak value n=30 rated value                  | 2.4 A   |
| minimum cross-section in main circuit at maximum AC-1 rated value      | 2.5 mm² |
| <b>operational current for approx. 200000 operating cycles at AC-4</b> |         |
| • at 400 V rated value                                                 | 2.6 A   |
| • at 690 V rated value                                                 | 1.8 A   |
| <b>operational current</b>                                             |         |
| • <b>at 1 current path at DC-1</b>                                     |         |
| — at 24 V rated value                                                  | 15 A    |
| — at 110 V rated value                                                 | 1.5 A   |
| — at 220 V rated value                                                 | 0.6 A   |
| — at 440 V rated value                                                 | 0.42 A  |
| — at 600 V rated value                                                 | 0.42 A  |
| • <b>with 2 current paths in series at DC-1</b>                        |         |
| — at 24 V rated value                                                  | 15 A    |
| — at 110 V rated value                                                 | 8.4 A   |
| — at 220 V rated value                                                 | 1.2 A   |
| — at 440 V rated value                                                 | 0.6 A   |
| — at 600 V rated value                                                 | 0.5 A   |
| • <b>with 3 current paths in series at DC-1</b>                        |         |
| — at 24 V rated value                                                  | 15 A    |
| — at 110 V rated value                                                 | 15 A    |
| — at 220 V rated value                                                 | 15 A    |
| — at 440 V rated value                                                 | 0.9 A   |

|                                                                                       |                                                           |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------|
| — at 600 V rated value                                                                | 0.7 A                                                     |
| • <b>at 1 current path at DC-3 at DC-5</b>                                            |                                                           |
| — at 24 V rated value                                                                 | 15 A                                                      |
| • <b>with 2 current paths in series at DC-3 at DC-5</b>                               |                                                           |
| — at 24 V rated value                                                                 | 15 A                                                      |
| — at 110 V rated value                                                                | 0.25 A                                                    |
| • <b>with 3 current paths in series at DC-3 at DC-5</b>                               |                                                           |
| — at 24 V rated value                                                                 | 15 A                                                      |
| — at 110 V rated value                                                                | 15 A                                                      |
| — at 220 V rated value                                                                | 1.2 A                                                     |
| — at 440 V rated value                                                                | 0.14 A                                                    |
| — at 600 V rated value                                                                | 0.14 A                                                    |
| <b>operating power</b>                                                                |                                                           |
| • at AC-2 at 400 V rated value                                                        | 3 kW                                                      |
| • at AC-3                                                                             |                                                           |
| — at 230 V rated value                                                                | 1.5 kW                                                    |
| — at 400 V rated value                                                                | 3 kW                                                      |
| — at 500 V rated value                                                                | 3 kW                                                      |
| — at 690 V rated value                                                                | 4 kW                                                      |
| • at AC-3e                                                                            |                                                           |
| — at 230 V rated value                                                                | 1.5 kW                                                    |
| — at 400 V rated value                                                                | 3 kW                                                      |
| — at 500 V rated value                                                                | 3 kW                                                      |
| — at 690 V rated value                                                                | 4 kW                                                      |
| <b>operating power for approx. 200000 operating cycles at AC-4</b>                    |                                                           |
| • at 400 V rated value                                                                | 1.15 kW                                                   |
| • at 690 V rated value                                                                | 1.15 kW                                                   |
| <b>operating apparent power at AC-6a</b>                                              |                                                           |
| • up to 230 V for current peak value n=20 rated value                                 | 1.5 kVA                                                   |
| • up to 400 V for current peak value n=20 rated value                                 | 2.7 kVA                                                   |
| • up to 500 V for current peak value n=20 rated value                                 | 3.3 kVA                                                   |
| • up to 690 V for current peak value n=20 rated value                                 | 4.3 kVA                                                   |
| <b>operating apparent power at AC-6a</b>                                              |                                                           |
| • up to 230 V for current peak value n=30 rated value                                 | 1 kVA                                                     |
| • up to 400 V for current peak value n=30 rated value                                 | 1.8 kVA                                                   |
| • up to 500 V for current peak value n=30 rated value                                 | 2.2 kVA                                                   |
| • up to 690 V for current peak value n=30 rated value                                 | 2.9 kVA                                                   |
| <b>short-time withstand current in cold operating state up to 40 °C</b>               |                                                           |
| • limited to 1 s switching at zero current maximum                                    | 120 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 5 s switching at zero current maximum                                    | 86 A; Use minimum cross-section acc. to AC-1 rated value  |
| • limited to 10 s switching at zero current maximum                                   | 67 A; Use minimum cross-section acc. to AC-1 rated value  |
| • limited to 30 s switching at zero current maximum                                   | 52 A; Use minimum cross-section acc. to AC-1 rated value  |
| • limited to 60 s switching at zero current maximum                                   | 43 A; Use minimum cross-section acc. to AC-1 rated value  |
| <b>no-load switching frequency</b>                                                    |                                                           |
| • at DC                                                                               | 10 000 1/h                                                |
| <b>operating frequency</b>                                                            |                                                           |
| • at AC-1 maximum                                                                     | 1 000 1/h                                                 |
| • at AC-2 maximum                                                                     | 750 1/h                                                   |
| • at AC-3 maximum                                                                     | 750 1/h                                                   |
| • at AC-3e maximum                                                                    | 750 1/h                                                   |
| • at AC-4 maximum                                                                     | 250 1/h                                                   |
| <b>Control circuit/ Control</b>                                                       |                                                           |
| <b>type of voltage of the control supply voltage</b>                                  | DC                                                        |
| <b>control supply voltage at DC</b>                                                   |                                                           |
| • rated value                                                                         | 125 V                                                     |
| <b>operating range factor control supply voltage rated value of magnet coil at DC</b> |                                                           |
| • initial value                                                                       | 0.8                                                       |
| • full-scale value                                                                    | 1.1                                                       |
| <b>closing power of magnet coil at DC</b>                                             | 4 W                                                       |
| <b>holding power of magnet coil at DC</b>                                             | 4 W                                                       |
| <b>closing delay</b>                                                                  |                                                           |

|                                                                                                                                                                                                |                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                                                                                      | 30 ... 100 ms                                                                                                                        |
| <b>opening delay</b>                                                                                                                                                                           |                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                                                                                      | 7 ... 13 ms                                                                                                                          |
| <b>arcing time</b>                                                                                                                                                                             | 10 ... 15 ms                                                                                                                         |
| <b>control version of the switch operating mechanism</b>                                                                                                                                       | Standard A1 - A2                                                                                                                     |
| <b>Auxiliary circuit</b>                                                                                                                                                                       |                                                                                                                                      |
| number of NO contacts for auxiliary contacts                                                                                                                                                   | 1                                                                                                                                    |
| instantaneous contact                                                                                                                                                                          |                                                                                                                                      |
| operational current at AC-12 maximum                                                                                                                                                           | 10 A                                                                                                                                 |
| <b>operational current at AC-15</b>                                                                                                                                                            |                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> </ul>                                                                                                                       | 10 A                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>                                                                                                                       | 3 A                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at 500 V rated value</li> </ul>                                                                                                                       | 2 A                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>                                                                                                                       | 1 A                                                                                                                                  |
| <b>operational current at DC-12</b>                                                                                                                                                            |                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>                                                                                                                        | 10 A                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• at 48 V rated value</li> </ul>                                                                                                                        | 6 A                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> </ul>                                                                                                                        | 6 A                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> </ul>                                                                                                                       | 3 A                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at 125 V rated value</li> </ul>                                                                                                                       | 2 A                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> </ul>                                                                                                                       | 1 A                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>                                                                                                                       | 0.15 A                                                                                                                               |
| <b>operational current at DC-13</b>                                                                                                                                                            |                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> </ul>                                                                                                                        | 10 A                                                                                                                                 |
| <ul style="list-style-type: none"> <li>• at 48 V rated value</li> </ul>                                                                                                                        | 2 A                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at 60 V rated value</li> </ul>                                                                                                                        | 2 A                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at 110 V rated value</li> </ul>                                                                                                                       | 1 A                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• at 125 V rated value</li> </ul>                                                                                                                       | 0.9 A                                                                                                                                |
| <ul style="list-style-type: none"> <li>• at 220 V rated value</li> </ul>                                                                                                                       | 0.3 A                                                                                                                                |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>                                                                                                                       | 0.1 A                                                                                                                                |
| <b>contact reliability of auxiliary contacts</b>                                                                                                                                               | 1 faulty switching per 100 million (17 V, 1 mA)                                                                                      |
| <b>UL/CSA ratings</b>                                                                                                                                                                          |                                                                                                                                      |
| <b>full-load current (FLA) for 3-phase AC motor</b>                                                                                                                                            |                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• at 480 V rated value</li> </ul>                                                                                                                       | 4.8 A                                                                                                                                |
| <ul style="list-style-type: none"> <li>• at 600 V rated value</li> </ul>                                                                                                                       | 6.1 A                                                                                                                                |
| <b>yielded mechanical performance [hp]</b>                                                                                                                                                     |                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• for single-phase AC motor <ul style="list-style-type: none"> <li>— at 110/120 V rated value</li> </ul> </li> </ul>                                    | 0.25 hp                                                                                                                              |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 230 V rated value</li> </ul> </li> </ul>                                                                   | 0.75 hp                                                                                                                              |
| <ul style="list-style-type: none"> <li>• for 3-phase AC motor <ul style="list-style-type: none"> <li>— at 200/208 V rated value</li> </ul> </li> </ul>                                         | 1.5 hp                                                                                                                               |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 220/230 V rated value</li> </ul> </li> </ul>                                                               | 2 hp                                                                                                                                 |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 460/480 V rated value</li> </ul> </li> </ul>                                                               | 3 hp                                                                                                                                 |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— at 575/600 V rated value</li> </ul> </li> </ul>                                                               | 5 hp                                                                                                                                 |
| <b>contact rating of auxiliary contacts according to UL</b>                                                                                                                                    | A600 / Q600                                                                                                                          |
| <b>Short-circuit protection</b>                                                                                                                                                                |                                                                                                                                      |
| <b>design of the fuse link</b>                                                                                                                                                                 |                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of coordination 1 required</li> </ul> </li> </ul> | gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)                                                                    |
| <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>— with type of assignment 2 required</li> </ul> </li> </ul>                                                     | gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)                                                                  |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>                                                                              | gG: 10 A (500 V, 1 kA)                                                                                                               |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                      |                                                                                                                                      |
| <b>mounting position</b>                                                                                                                                                                       | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| <b>fastening method</b>                                                                                                                                                                        | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715                                               |
| <ul style="list-style-type: none"> <li>• side-by-side mounting</li> </ul>                                                                                                                      | Yes                                                                                                                                  |
| <b>height</b>                                                                                                                                                                                  | 58 mm                                                                                                                                |
| <b>width</b>                                                                                                                                                                                   | 45 mm                                                                                                                                |
| <b>depth</b>                                                                                                                                                                                   | 73 mm                                                                                                                                |
| <b>required spacing</b>                                                                                                                                                                        |                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting</li> </ul>                                                                                                                 |                                                                                                                                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10 mm<br>10 mm<br>10 mm<br>0 mm<br><br>10 mm<br>10 mm<br>6 mm<br>10 mm<br><br>10 mm<br>10 mm<br>10 mm<br>6 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> <li>• at contactor for auxiliary contacts</li> <li>• of magnet coil</li> </ul> <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG cables for main contacts</li> </ul> <b>connectable conductor cross-section for main contacts</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> <li>• finely stranded with core end processing</li> </ul> <b>connectable conductor cross-section for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul> <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG cables for auxiliary contacts</li> </ul> <b>AWG number as coded connectable conductor cross section</b> <ul style="list-style-type: none"> <li>• for main contacts</li> <li>• for auxiliary contacts</li> </ul> | screw-type terminals<br>screw-type terminals<br>Screw-type terminals<br>Screw-type terminals<br><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14), 2x 12<br><br>0.5 ... 4 mm <sup>2</sup><br>0.5 ... 4 mm <sup>2</sup><br>0.5 ... 2.5 mm <sup>2</sup><br><br>0.5 ... 4 mm <sup>2</sup><br>0.5 ... 2.5 mm <sup>2</sup><br><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14), 2x 12<br><br>20 ... 12<br>20 ... 12 |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>product function</b> <ul style="list-style-type: none"> <li>• mirror contact according to IEC 60947-4-1</li> </ul> B10 value with high demand rate according to SN 31920<br><b>proportion of dangerous failures</b> <ul style="list-style-type: none"> <li>• with low demand rate according to SN 31920</li> <li>• with high demand rate according to SN 31920</li> </ul> failure rate [FIT] with low demand rate according to SN 31920<br>T1 value for proof test interval or service life according to IEC 61508<br><b>protection class IP on the front according to IEC 60529</b><br><b>touch protection on the front according to IEC 60529</b><br><b>suitability for use</b> <ul style="list-style-type: none"> <li>• safety-related switching OFF</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes; with 3RH29<br>1 000 000<br><br>40 %<br>73 %<br>100 FIT<br><br>20 y<br><br>IP20<br><br>finger-safe, for vertical contact from the front<br><br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Certificates/ approvals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



[Confirmation](#)



[KC](#)



| EMC | Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates |
|-----|---------------------------------------|---------------------------|-------------------|
|-----|---------------------------------------|---------------------------|-------------------|



[Type Examination Certificate](#)



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

#### Marine / Shipping



| Marine / Shipping | other | Railway | Dangerous Good |
|-------------------|-------|---------|----------------|
|-------------------|-------|---------|----------------|



[Confirmation](#)



[Vibration and Shock](#)

[Transport Information](#)

#### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-1BG41>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-1BG41>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1BG41>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

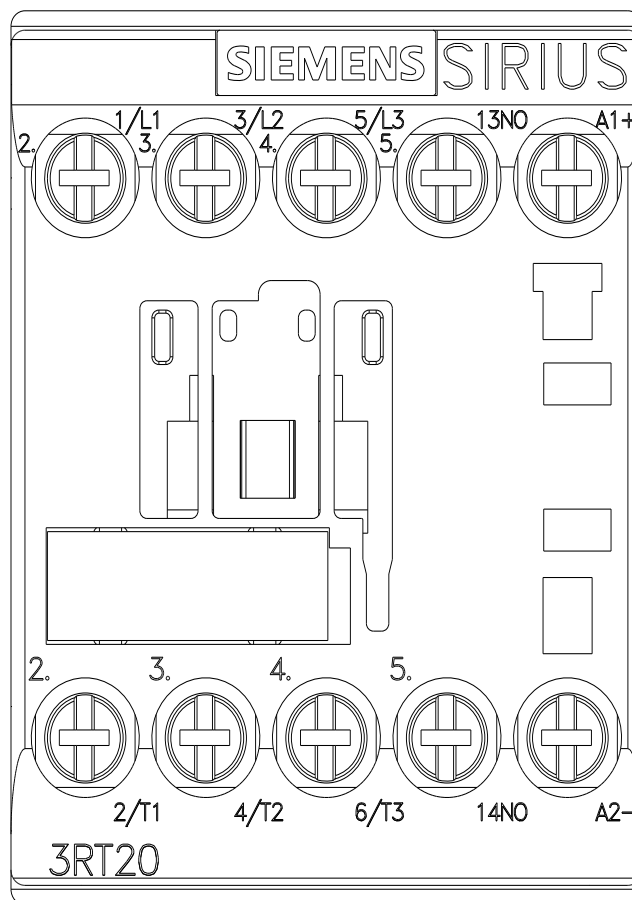
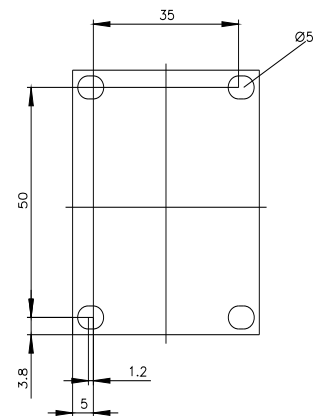
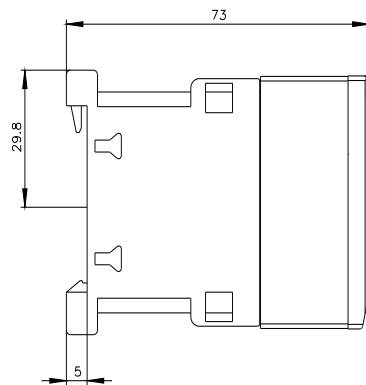
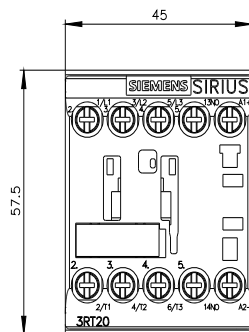
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2015-1BG41&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1BG41&lang=en)

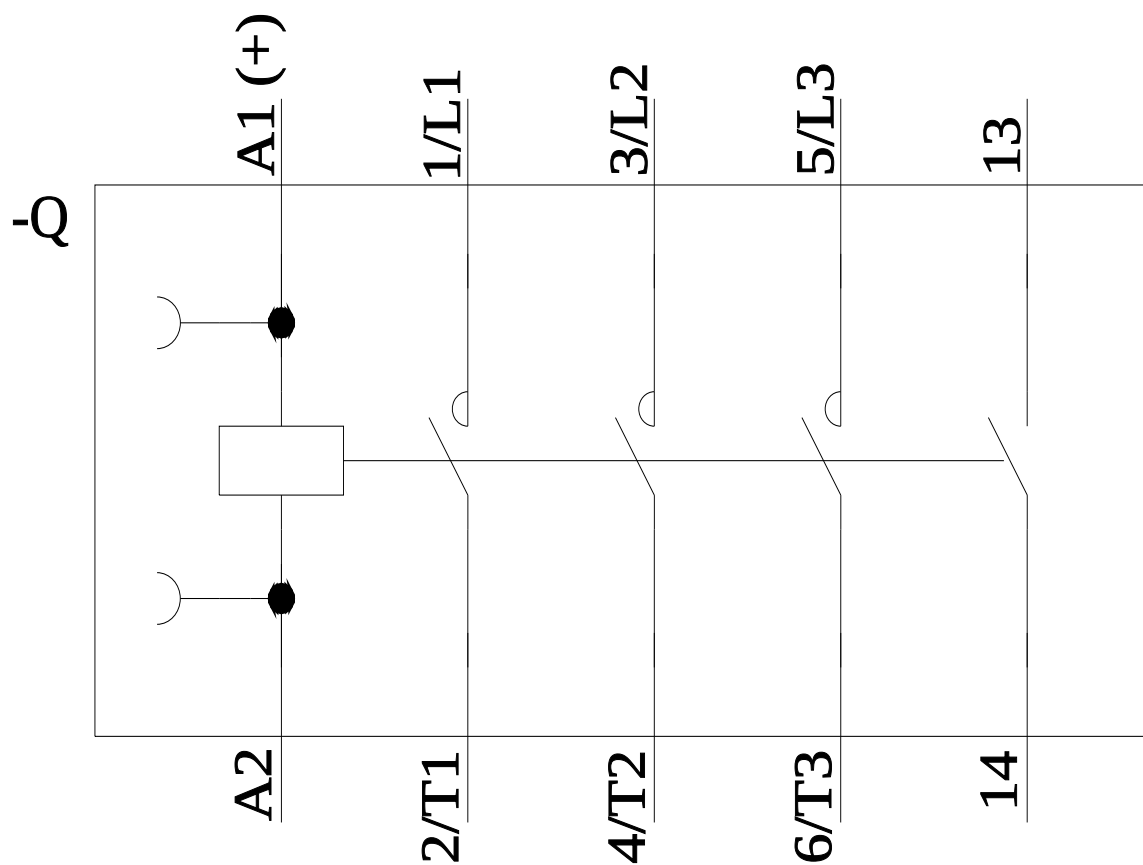
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1BG41/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1BG41&objecttype=14&gridview=view1>





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6/2/2022 